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representatives, in natural size and also much enlarged, of the seeds of 100 of the most troublesome species. These illustrations are from the water-color sketches of NORMAN CRIDDLE, and will enable the farmer to identify readily most of his plant enemies, either while they are growing in the field or while polluting his seed grain.

The book is well printed and strongly bound, which, together with its other admirable qualities, makes it a valuable addition to the literature of economic botany.—GEO. D. FULLER.

A text-book of pharmacognosy.—A fourth edition of KRAEMER's *Text-book* has appeared.³ It is "intended for the use of students of pharmacy, as a reference book for pharmacists, and as a handbook for food and drug analysts." Such a statement indicates that the volume does not fall within the province of a botanist for review, and yet the material presented is of great interest to botanists. Part I (pp. 222) is entitled "Botany," and comprises a presentation of all the great groups, "outer morphology of angiosperms," "inner morphology of the higher plants," "classification of angiosperms yielding vegetable drugs," and "cultivation of medicinal plants." Of course this is botany for the pharmacist, and Dr. KRAEMER is in a position to know what the pharmacist needs. Only the first chapter, dealing with the great groups, really pertains to the non-pharmaceutical botanist. Perhaps it makes no difference to the students concerned, but the very antique flavor of the presentation of the great groups is somewhat surprising to the modern morphologist. Part II (pp. 383) is entitled "Pharmacognosy," and deals first with crude drugs, and then with powdered drugs and foods. Part III (pp. 88) is entitled "Reagents and technique"; and part IV (pp. 38) deals with "Micro-analysis."

The volume is certainly a thesaurus of information for the pharmacist, and doubtless will have great influence upon the progress of pharmacognosy in this country. There is abundant evidence, also, of an immense amount of painstaking labor on the part of the author, who is to be commended for his many years of faithful effort to organize and advance his subject.—J. M. C.

A naturalist in the Bahamas.—Under this title a memorial volume in honor of Dr. JOHN I. NORTHROP has appeared.⁴ The botanical papers are as follows: "Flora of New Providence and Andros (Bahama Islands)," by ALICE R. NORTHROP (reprinted from Mem. Torr. Bot. Club 12:no. 1. 1902); "Plant notes from Temiscouata County, Canada," by JOHN I. and ALICE R. NORTHROP (reprinted from Bull. Torr. Bot. Club 17:1890); "Notes on the plant distribution of Mt. Washington, N.H.," by JOHN I. and ALICE R. NORTHROP; and

³ KRAEMER, HENRY, A text-book of botany and pharmacognosy. pp. viii+888. Philadelphia and London: J. B. Lippincott Company. 1910. \$5.00.

⁴ A naturalist in the Bahamas. JOHN I. NORTHROP. Oct. 12, 1861—June 25, 1891. A memorial volume edited with a biographical introduction by HENRY FAIRFIELD OSBORN. pp. 281. New York: The Columbia University Press. 1910. \$2.50.